

## ABSTRACT OF THE DISCLOSURE

A reader of the present invention reads the shape of the surface of an object and includes a magnetic displacement portion and a detecting  
5 portion. When the magnetic displacement portion comes into contact with the surface of the object, the magnetic state of the magnetic displacement portion differs depending on the shape of the surface. The detecting portion detects the magnetic state of the magnetic displacement portion.  
An authentication device of the present invention includes the reader, a  
10 memory, and a matching portion. The memory stores the shape of the surface of an object beforehand. The matching portion matches the shape read by the reader with the shape stored in the memory. The reader and the authentication device can use the magnetic displacement as a detection technique.